SEP 1 1 2007

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Bullon

Title: NEISSERIA MENINGITIDIS ANTIGENS

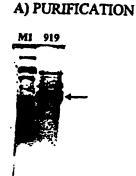
AND COMPOSITIONS

Inventor: Claire M. FRASER et al. Application No.: 09/674,546 Docket No.: 223002101200

Sheet 1 of 1

FIGURE 1

919 (46 kDa)



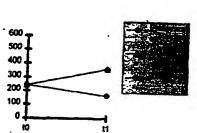
B) EXPRESSION



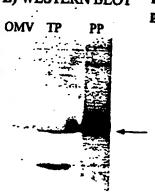
· C) FACS.



D) BACTERICIDAL ASSAY



E) WESTERN BLOT



F) ELISA assay: positive

919

The predicted orf 919 was cloned in pET and pGex vectors and expressed in E. coli. The products of protein expression and purification were analyzed by SDS-PAGE. In panels A) and B) is shown the analysis of 919-His fusion protein purified on affinity column and 919-GST fusion protein expressed in E. coli, respectively. Mice were immunized with the purified 919-His and sera were used ELISA assay (panel F), Western blot (panel E) FACS analysis (panel C) and bactericidal assay (panel D). Results show that 919 is a surface-exposed protein. Symbols: M1, molecular weight markers; PP, purified protein, TP, N. meningitidis total protein extract; OMV, N. meningitidis outer membrane vesicle preparation. Arrows indicate the position of the main recombinant protein product (A and B) and the N. meningitidis immunoreactive band (E).

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